

# EFFICIENT BRANCH PREDICTION STRUCTURE

Nuckolls, et al.

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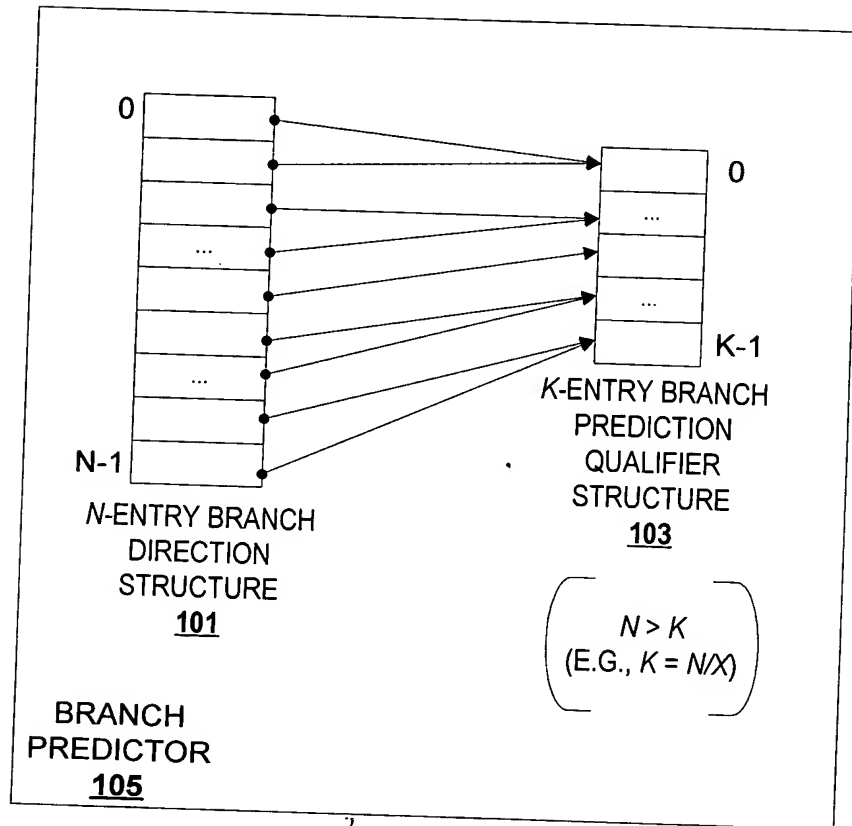


FIG. 1

# EFFICIENT BRANCH PREDICTION STRUCTURE

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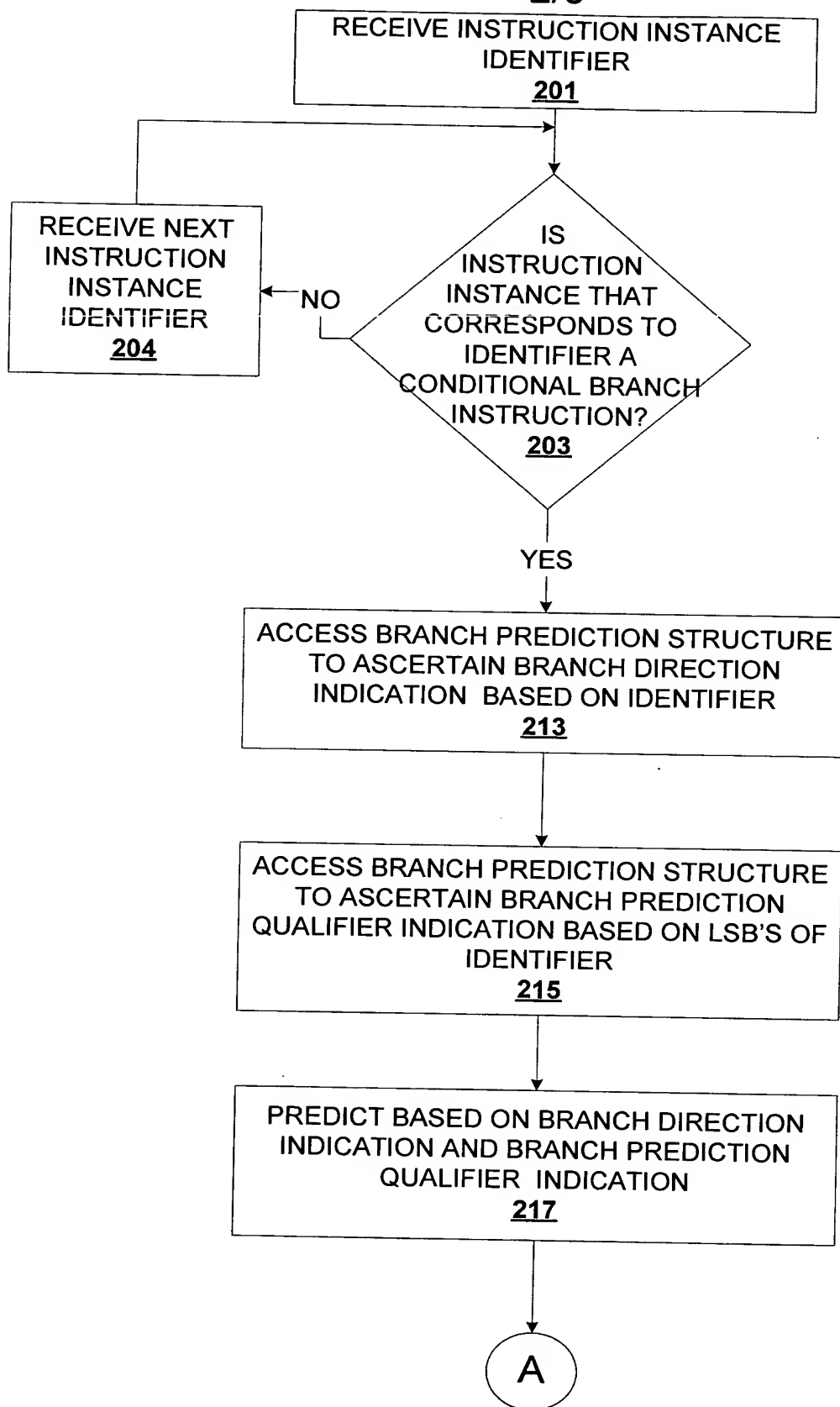


FIG. 2A

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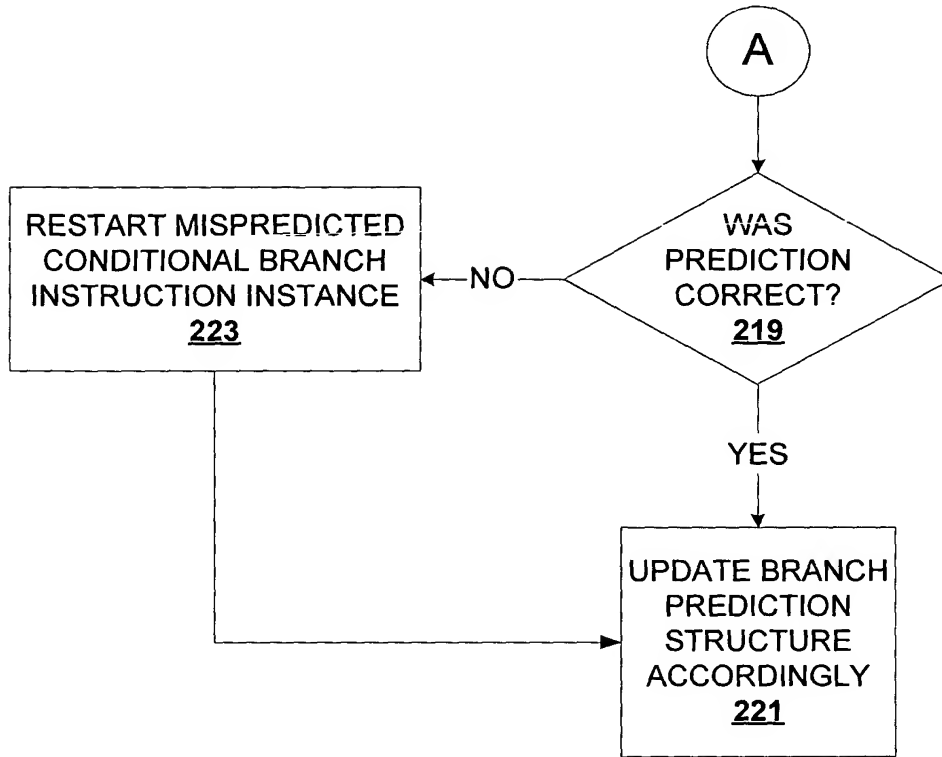


FIG. 2B

# EFFICIENT BRANCH PREDICTION STRUCTURE

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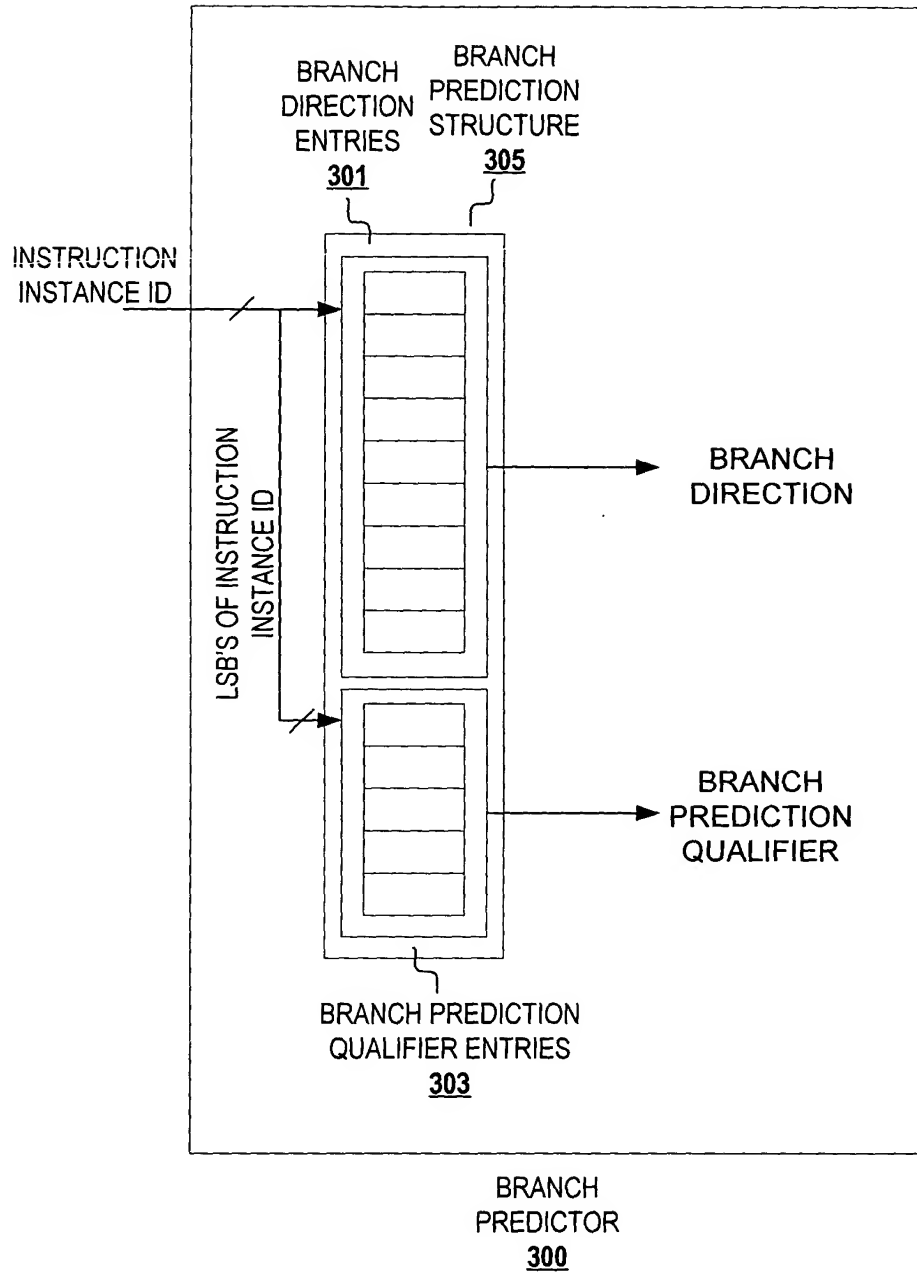


FIG. 3

# EFFICIENT BRANCH PREDICTION STRUCTURE

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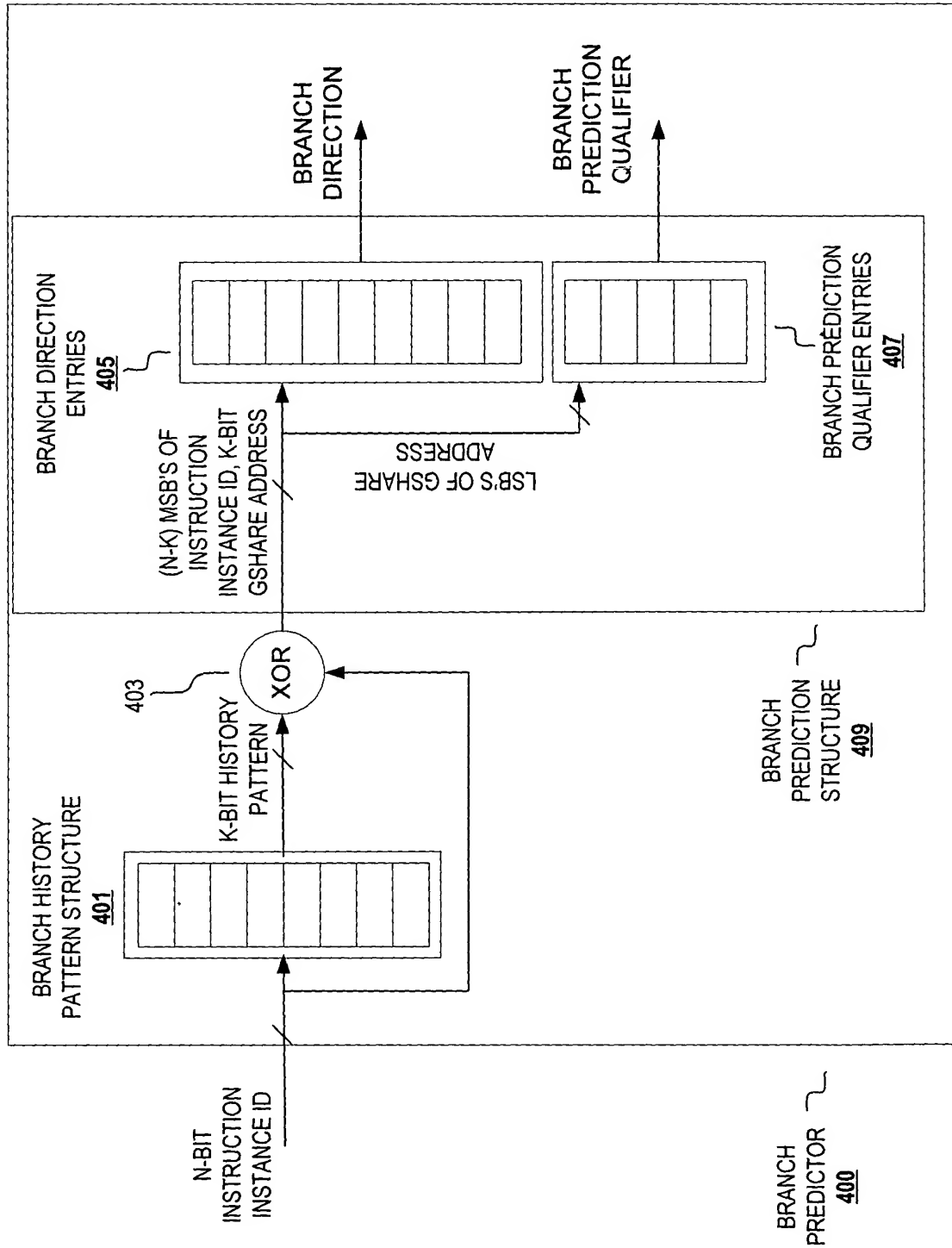


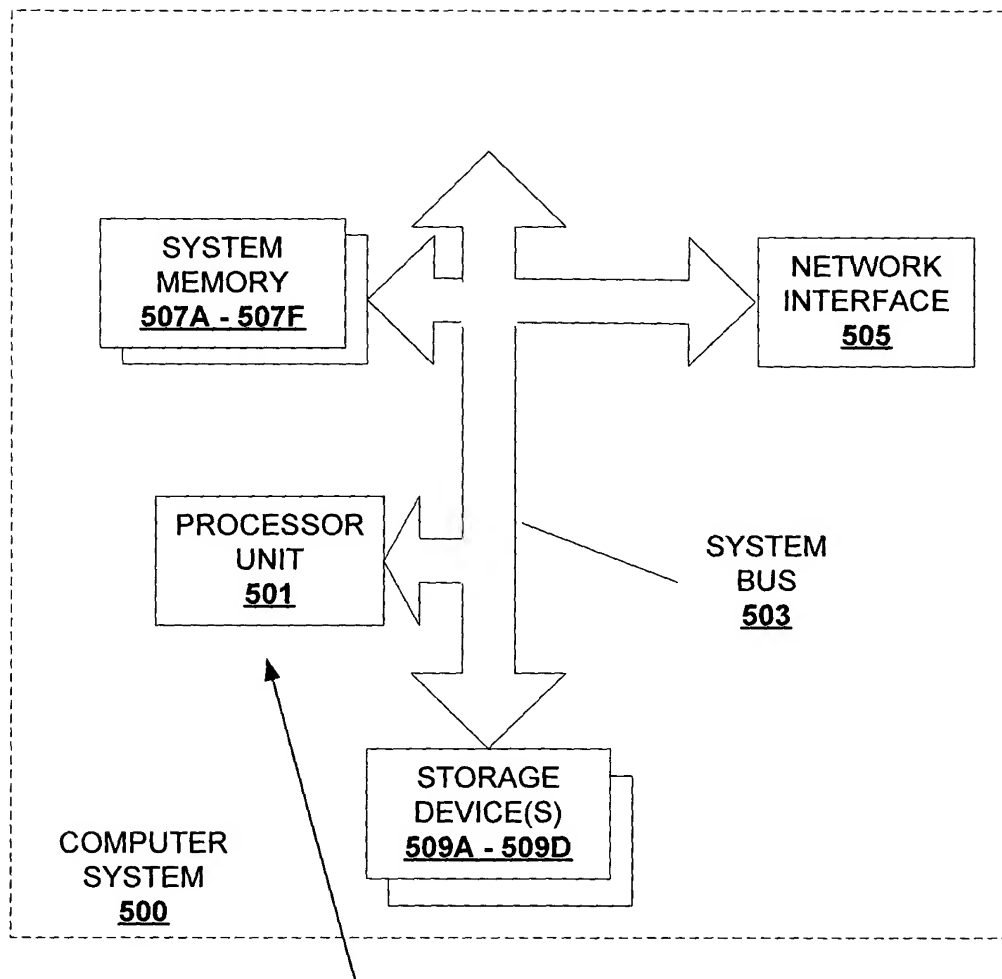
FIG. 4

# EFFICIENT BRANCH PREDICTION STRUCTURE

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INCLUDES BRANCH  
PREDICTION STRUCTURE  
WITH X BRANCH DIRECTION  
ENTRIES AND Y BRANCH  
PREDICTION QUALIFIER  
ENTRIES ( $X > Y$ )

FIG. 5